

Appl. No. 09/691,174
Amdt. Dated September 8, 2004
Reply to Office action of June 9, 2004
Attorney Docket No. P12288-US1
EUS/J/P/04-3200

Amendments to the Specification:

Please replace the Abstract with the following rewritten Abstract:

--A method and apparatus for controlling power in a Multiple Carrier Power Amplifier (MCPA) equipped base station in a wireless communication system, is described. A base station and a Multiple Carrier Power Amplifier (MCPA) are split into at least two separate and an interface. An aggregate signal represents carrier signals from mobile stations served by the base station. MCPA gain level is adjusted to maintain a linear transmit power, measured during an interval, and related information fed back across an the interface to the base station. A first and second control parameter such as power averaging period and sampling interval Two control parameters are provided from the base station to control the measuring of the gain measurement. The interface may be digital and providing The feedback includes defining a 100% load level associated with the MCPA and feeding back information proportional to the measured gain level. The interval parameter may correspond to a synchronous interval, asynchronous, a time slot interval or irregular interval. A plurality of base stations may further be supported by one MCPA using several interfaces. A linear transmit power level may be maintained by maintaining a power level associated with a control channel and autonomously adjusting second power levels associated with remaining signals in the aggregate signal, or second power levels may be prioritized and adjusted according to priority. To improve quality, a higher priority is assigned to relatively low powered remaining signals. Alternatively, control channel power level may be maintained, while receiving priorities over the interface from the base station to the MCPA and adjusting the one or more second power levels based on received priority. --